

**ABSTRACT OF DISCLOSURE**

A computer system is provided with a single processor equipped to serve as multiple logical processors. The computer system comprises a host chipset connected to the processor; PCI devices connected to the host chipset, via a PCI bus; and a main storage connected to the host chipset and arranged to store an operating system (OS) and contain a basic input/output system (system BIOS) configured to execute multiple pre-boot tasks, including memory initialization and PCI bus initialization concurrently, on the processor which serve as multiple logical processors before passing control to the operating system (OS).